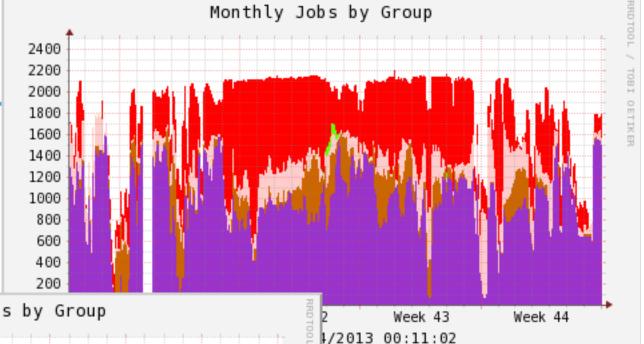
## **PDSF User Meeting**

November 5, 2013 Lisa Gerhardt





### **Utilization**

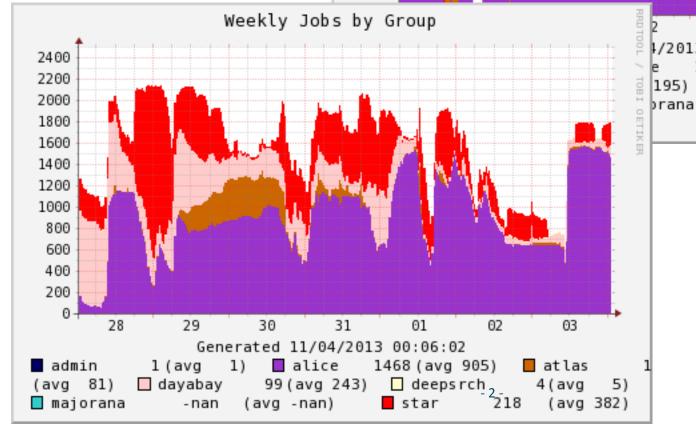


1498 (avg 969)

deeps rch

1

52 (avg 21)





atlas

4 (avg

star

(avg

4)

1)

217

## **Past Outages**



#### Past

- October 8<sup>th</sup> (8:00 am 9:00 pm): Project unavailable for inode expansion
- October 12<sup>th</sup> (1 hour): Switch failure, effected NERSC DTNs and science gateways
- October 15<sup>th</sup> (1 hour): Network, effected NERSC DTNs and science gateways





## **Planned Outages**



#### Planned

- November 6<sup>th</sup> (8:00 am 10:00 am): Rolling upgrade of kernel and GPFS on interactive nodes. Nodes will be upgraded one at a time. PDSF will stay up
- November ??: Rolling upgrade of Daya Bay nodes
- November 12<sup>th</sup> 7:00 am (1 week): Mendel nodes will be offline for recabling. Scheduled return November 19<sup>th</sup> 7:00 pm.
  - Mendel nodes will drain at 6:00 pm 11-11-13.
  - PDSF will stay up, but 48 / 205 nodes will be offline





## **Other Topics from PDSF Staff**



#### New Hardware

- New Mendel nodes have been delivered!!
- Larry can update
- Tentative plan is to swap the interactives in January with new Mendel nodes
  - Leave the system stable for the big holiday break
  - Once new interactives are up, mount global scratch on all of PDSF
  - Going from four interactive nodes to three, but same number of cores

### Rolling Upgrade

- Since 10/29 computes and interactives are being upgraded to a new kernel and GPFS
- Part security, part to address ATLAS kernel issue

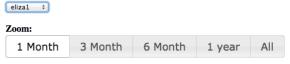




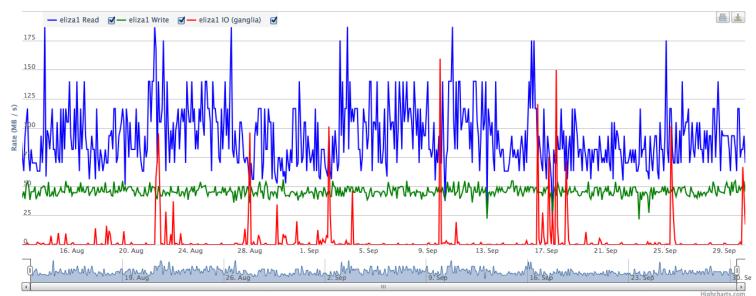
## **Benchmarking**

Command:

Covers all elizas and project.
Shows read and write rates along
with ganglia I/O rates.
On NERSC page:
PDSF -> Cluster Statistics -> PDSF I/O
Monitoring











## Other Topics from PDSF Staff



#### cvmfs on carver

- Uses parrot: User level virtual file system
- Can only handle one cvmfs repository at a time module load cctools/parrot-cvmfs parrot\_run <your script>

### NERSC AFS is going away

PDSF either needs to retire it or find a new cell to join





# **Topics from the Users**





